

CLAIMS

1. An optical recording medium comprising a substrate, an optical recording layer formed on at least one surface of the substrate, an adhesive layer formed on the optical recording layer, and an optically transparent protective layer formed on the adhesive layer, wherein the transparent protective layer is a layer formed by adhering an optically transparent protective sheet, which is made by curing a radiation curable paint so as to form a sheet, to said optical recording layer, with intervening said adhesive layer therebetween.

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2. An optical recording medium as set forth in claim 1, wherein said adhesive layer is composed of a transparent acrylic type resin adhesive or a radiation curable resin type adhesive.

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3. An optical recording medium as set forth in claim 1, wherein said optically transparent protective sheet further comprises a primer layer on the adhesive side thereof.

4. An optical recording medium as set forth in claim 3, wherein said primer layer is a dried coating of a solvent type paint containing a polymerizable oligomer and/or an acrylic polyol type resin.

20 5. An optical recording medium as set forth in claim 1, wherein said radiation curable paint contains a polymerizable oligomer and a polymerizable monomer.

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6. A process for producing an optical recording layer comprising the steps of:

an optical recording layer forming step for forming an optical recording layer on at least one surface of a substrate,

an adhesive supplying step for supplying an adhesive onto the optical recording layer, and

5 an adhering step for disposing an optically transparent protective sheet, which is formed by curing a radiation curable paint so as to form a sheet, on an adhesive layer to thereby adhere the optically transparent protective sheet to the optical recording layer.

10 7. A process for producing an optical recording layer comprising the steps of:

an optical recording layer forming step for forming an optical recording layer on at least one surface of a substrate, and

an adhering step for adhering an optically transparent protective sheet, which is formed by curing a radiation curable paint so as to form a sheet, to the optical recording

15 layer, with intervening a double-sided adhesive sheet therebetween.

8. An optically transparent protective sheet made of a radiation curable paint which is cured so as to form a sheet.

20 9. An optically transparent protective sheet as set forth in claim 8 further comprising a primer layer made of a dried coating of a solvent type paint containing a polymerizable oligomer and/or an acrylic polyol type resin.

25 10. A process for producing an optically transparent protective sheet comprising the steps of:

a coating forming step for applying a radiation curable paint to a surface of a strippable substrate to form a coating,

a curing step for irradiating the coating to cure the coating thereby forming an optically transparent protective sheet, and

5 a stripping step for stripping the optically transparent protective sheet from the strippable substrate.

11. A process for producing an optically transparent protective sheet comprising the steps of:

10 a primer layer forming step for applying a solvent type paint containing a polymerizable oligomer and/or an acrylic polyol type resin to form a coating, subsequently drying the coating to form a primer layer,

 a coating forming step for applying a radiation curable paint onto the primer layer to form a coating,

15 a curing step for irradiating the coating to cure the coating thereby forming an optically transparent protective sheet, and

 a stripping step for stripping the optically transparent protective sheet from the strippable substrate.